

7-12-11

Vaquero -
Cat Canyon

Sib - Water Disposal Project

Tunnell - S18

Zone Data: $\phi = 35\%$

Thickness: 165'

X well: 649' To Greka Oil & Gas, Inc. "Mortensen Fee" 13

(Tunnell 13 - Should be okay) 539' to Inj. Well

Top Sib: 2205' TVD (2740' DD)

Static F/L: 233' 2/14/11 (Fluid Gradient = 8.6 ppf = .450 psi/ft.
(Fluid level in Well))

Sib Pressure: $.450 \times (2205' - 233') = 887 \#$ @ Top Perf.

Sib $\checkmark = .44 \times 2205' = 970$ psi. = Hydrostatic Press. - Salt water

Below Hyd. = $(970 - 887) / 970 = 83 / 970 = .0856 = 8.56\%$ Void

100% Saturated Reservoir Volume = $\pi r^2 / 5.6146 = 235,559 \times .53 = 82,446$

$82,446 \times 165' = 13,603,548$ bbls. @ 100%

931,200 20% Swin

$13,603,548 \times .0856$ Void = 1,164,000 bbls. To Fill Void

@ 800 B/D = 1455 days inf \approx 4 years. Limit

1. Include Lower Sigsbee Sands in the water disposal project. - ?
2. Include all the Sigsbee Formation in the WD - ?
3. Limit Inj. volume to the calculated void space in the Sib sand.
to Nearest Problem Well - "Mortensen Fee" 13
4. Sib Zone in all problem wells is isolated behind cemented casing. N80 - D110
CSG.
5. Inj. Limited to calculated void space to nearest problem well.

Void = 1,164,000 bbls. (800 B/D max Inj. Rate -
cumul - 1,164,000 bbls. \approx 4 years

9.7 ac. re
2715 bbls.
ac-ft.

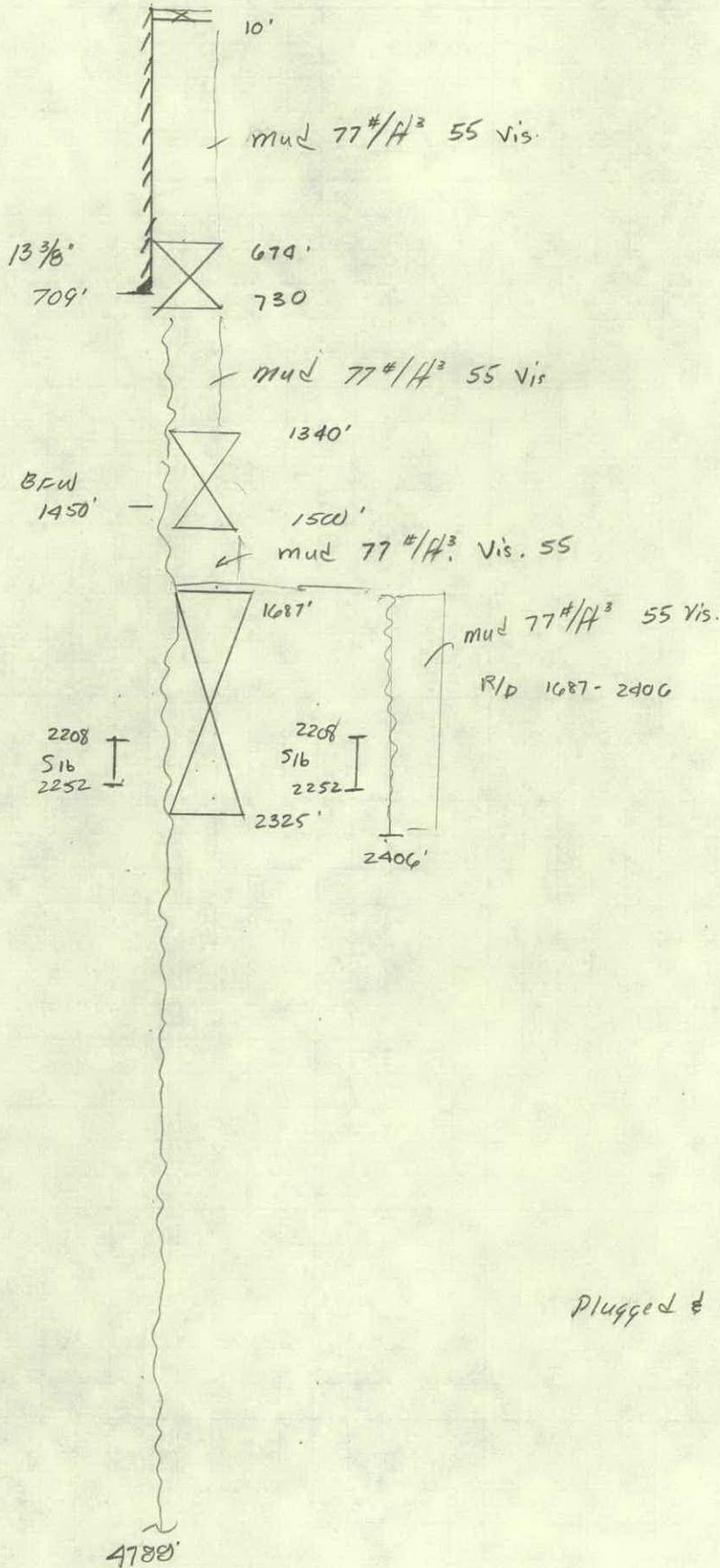


Aora Energy, Inc.

"Reality" 42-8

083 - 01272

over 1/4 mile from Enj. Well



Plugged & Abd. 10-1950



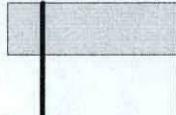
General Petroleum Corp Goodwin Fee #48-2

Short plug between lowest BFW
1450' +/- and top S1b. Well is just
over 1/4 mile away

TD: 4,788'
KB: 568'
API: 083-01272

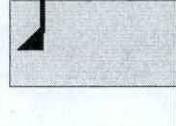
*w/ Limit Inj. Vol.
Inj. Should Not Impact
This Well!*

13-3/8", 48# H-40, at 709'
Cmt'd w/ 625 sxs cement.
Cement returns to surface.



10/22/1956
Cement Plug:
Surface - 10'

10/21/1956
Cement Plug:
674' - 730'

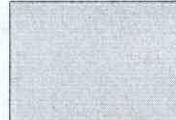


*mud-
mud 77#/#3 & 55 vis-
- 12 1/4" hole*

*BFW Plug in
open Hole - 200' Reg-
100' Above & Below*

Base of Fresh Water: +/- 1,450'

10/20/1956
Cement Plug:
- 1340' - 1500'



- BFW Plug okay - Top - Btm - 50' short

*1350-1550'
Needed
100' Below
& Above*

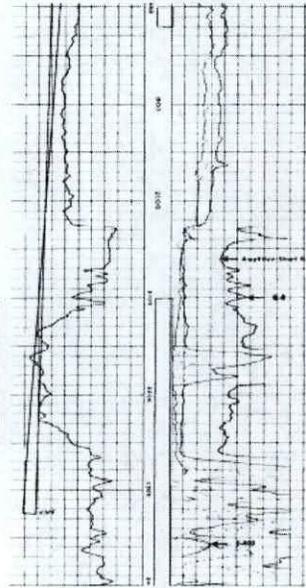
BFW at 1450' +/-
1450 x .5397 = 775'

Redrill (NO PLUGS)
1687' - 2406'

77#/#3 mud 2,108'

S1b Injection Zone

2,252'



550 sxs

*3000 plug
okay -
OH*

*Base signature
2310' +/-*

for Kick-off

*Dr 19- mud
10PP9 = 75#/#3
50 vis-
4788 - 2325'*

*77#/#3
5347 psi/H.*

Outside 1/4 mile radius of review, Restrictions on
Injection volume and pressure will prevent this well from
being impacted.

FLC Start 880'

Formation Test 2230-2340'

775 PSI @ End of Test

TD: 4,788'

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon, Guadalupe, Lompoc, Morales Canyon & Santa Maria Valley	District 3 - SANTA MARIA
Former owner Mobil Calif. Exp. & Prod. Asset Co.	Date October 15, 1997
Name and location of well(s)	
<p>Cat Canyon</p> <p>Sec. 31, T. 9N, R. 32W, S.B. B&M Sec. 2 & 10, T. 9N, R. 33W, S.B. B&M Sec. 13 & 14, T. 9N, R. 33W, S.B. B&M <u>Sec. 21, 22 & 25, T. 9N, R. 33W, S.B. B&M</u></p> <p>All Wells</p> <p>Guadalupe</p> <p><u>Sec. 31 & 32, T. 11N, R. 35W, S.B. B&M</u></p> <p>All Wells</p> <p>Lompoc</p> <p><u>Sec. 31 & 32, T. 8N, R. 33W, S.B. B&M</u></p> <p>All Wells</p>	<p>Morales Canyon</p> <p><u>Sec. 10, T. 11N, R. 28W, S.B. B&M</u></p> <p>All Wells</p> <p>Santa Maria Valley</p> <p>Sec. 5, 6 & 9, T. 9N, R. 33W, S.B. B&M Sec. 32, T. 10N, R. 33W, S.B. B&M Sec. 16, T. 10N, R. 34W, S.B. B&M Sec. 36, T. 10N, R. 34W, S.B. B&M <u>Sec. 9, T. 10N, R. 35W, S.B. B&M</u></p> <p>All Wells</p>

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange 6-27-97	New owner Aera Energy LLC	Opcode: A0610	Type of organization Corp.
	Address 66893 Sargent Canyon Road San Ardo, CA 93450		Telephone No. (408) 385-7739

Reported by
Mobil Calif. Exp. & Prod. Asset Co.

Confirmed by
Aera Energy LLC

New operator new status (status abbreviation) NPI	Request designation of agent
--	------------------------------

Old operator new status (status abbreviation) NPI	Remarks
--	---------

OPERATOR STATUS ABBREVIATION	Deputy Supervisor William E. Brannon	Signature <i>William E. Brannon</i>
PA - Producing Active		

		FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date	
NPI - No Potential Inactive	Form OGD121	Ca	9/98	Map and Book	PCW	9/98	
Ab - Abandoned or No More Wells	Well records	Ca	9/98	Notice to be cancelled	-	-	
WEB:dj	New well cards	Ca	9/98	EDP	D/H	9/98	
cc: Cons. Committee Aera Energy LLC Update Mobil	Bond Status	Ca	9/98	District Computer Files	PCW	9/98	

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
 DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon, Guadalupe, Lompoc, Morales Canyon & Santa Maria Valley	District 3 - SANTA MARIA
Former owner Mobil Oil Corp.	Opcode: M6925 Date October 15, 1997
Name and location of well(s)	
Cat Canyon Sec. 31, T. 9N, R. 32W, S.B. B&M Sec. 2 & 10, T. 9N, R. 33W, S.B. B&M Sec. 13 & 14, T. 9N, R. 33W, S.B. B&M <u>Sec. 21, 22 & 25, T. 9N, R. 33W, S.B. B&M</u> All Wells Guadalupe <u>Sec. 31 & 32, T. 11N, R. 35W, S.B. B&M</u> All Wells Lompoc <u>Sec. 31 & 32, T. 8N, R. 33W, S.B. B&M</u> All Wells	Morales Canyon <u>Sec. 10, T. 11N, R. 28W, S.B. B&M</u> All Wells Santa Maria Valley Sec. 5, 6 & 9, T. 9N, R. 33W, S.B. B&M Sec. 32, T. 10N, R. 33W, S.B. B&M Sec. 16, T. 10N, R. 34W, S.B. B&M Sec. 36, T. 10N, R. 34W, S.B. B&M <u>Sec. 9, T. 10N, R. 35W, S.B. B&M</u> All Wells

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange 6-27-97	New owner Mobil Calif. Exp. & Prod. Asset Co.	Opcode:	Type of organization Corp.
	Address P. O. Box 9989 Bakersfield, CA 93389		Telephone No. (805) 969-3232

Reported by
Mobil Oil Corp.

Confirmed by
Mobil Calif. Exp. & Prod. Asset Co.

New operator new status (status abbreviation) NPI	Request designation of agent
--	------------------------------

Old operator new status (status abbreviation) NPI	Remarks
--	---------

OPERATOR STATUS ABBREVIATION	Deputy Supervisor William E. Brannon	Signature <i>William E. Brannon</i>
PA - Producing Active		

OPERATOR STATUS ABBREVIATION	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
NPA - No Potential Active						
PI - Potential Inactive						
NPI - No Potential Inactive	Form OGD121	CA	9/98	Map and Book	CA	9/98
Ab - Abandoned or No More Wells	Well records	CA	9/98	Notice to be cancelled		
WEB:dj	New well cards	CA	9/98	EDP	IS	9/98
cc: Cons. Committee Aera Energy LLC Update Mobil	Bond Status	CA	9/98	District Computer Files	RB	9/98

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Santa Maria, California

February 5, 1957

Mr. I M McKenzie, Jr.
General Petroleum Corp
P O Box 770, Ventura California

Engineer for General Petroleum Corp

Receipt Acknowledged
S. F. Office

DEAR SIR:

Your report of abandonment of Well No. "Realty" 48-2
Sec. 2, T. 9 N., R. 33W., S.B. B. & M., ----- field,
Santa Barbara County, dated November 15, 1956, has been
examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which
are based on all information filed with it, have been fulfilled.

CC: Mr E H Musser
Mr F L Wadsworth
Mr E L DeMaris
Mr C E Dyer
Conservation Committee

E. H. MUSSER
State Oil and Gas Supervisor

By Wm C. Baker
Deputy Supervisor

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
	36120 5-56	6M SPO			2-5-57 MW

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
<i>[Handwritten scribble]</i>					

Uncompleted Abandoned Oct. 22, 1956

DIVISION OF OIL AND GAS
 RECEIVED
 FEB 4 - 1957

GENERAL PETROLEUM CORPORATION ^{SANTA MARIA, CALIFORNIA}
 WELL COMPLETION REPORT
 ORIGINAL DRILLING

OPERATOR GENERAL PETROLEUM CORPORATION ✓
 WELL NO. "REALTY" #48-2 ✓
 FIELD SANTA MARIA VALLEY ✓
 SEC. 2 ✓, T. 9N ✓, R. 33W ✓ / S.B. / B & M
 STATE California COUNTY Santa Barbara ✓
 LOCATION 330.02' W'ly along S. line Section
2 from S/4 corner and 329.76' N'ly at right
angles

LAND OFFICE _____ LEASE NO. _____
 ELEVATIONS 568' (K.B.) 556' (MAT)
 ENGINEER I. M. MacKenzie, Jr.
 GEOLOGIST R. G. Colvin
 DATE November 15, 1956
I. M. MacKenzie, Jr.
 SIGNED A. McLean
 TITLE Agent

COMMENCED DRILLING September 12, 1956
 COMPLETED DRILLING October 22, 1956
 TOTAL DEPTH 4788' PLUGGED DEPTH Surface
 JUNK None Plugged with cement 1500'-1340'
" " " 730'-674'
" " " 10'-Surface.
 ABANDONED
~~EXPLORATION~~ 10/22/56 ~~EXPLORATION~~
 (CROSS OUT UNNECESSARY WORDS)

GEOLOGICAL MARKERS	DEPTH

PRODUCTION DATA

PRODUCTION, CLEAN OIL	GRAVITY CLEAN OIL	TOTAL CUT %	BEAN SIZE	TUBING PRESSURE	CASING PRESSURE	GAS MCF PER DAY
INITIAL	B/D	NEVER PRODUCED				
AFTER _____ DAYS	B/D					

CASING RECORD (PRESENT HOLE)

SIZE OF CASING (A.P.I.)	DEPTH OF SHOE	TOP OF CASING	WEIGHT OF CASING	NEW OR SECONDHAND	SEAMLESS OR LAPWELD	GRADE OF CASING	SIZE OF HOLE DRILLED	NO. OF SACKS OF CEM.	DEPTH OF CEM. IF THRU PERFS.
13-3/8"	709'		48#	New		H-40	18-5/8"	625'	

PERFORATIONS

SIZE OF CASING	FROM	TO	SIZE OF PERFS.	NO. OF ROWS	DISTANCE BET. CENTERS	METHOD OF PERFS.		
						Map No.	Map Letter	Bond No.

Forms		
115	114	121

ELECTRIC LOG DEPTHS 38/4786' in O.H.
1600'/2403' in Redrill

DRILLED BY Santa Maria Drilling Company

GENERAL PETROLEUM CORPORATION

HISTORY OF OIL OR GAS WELL

OPERATOR GENERAL PETROLEUM CORPORATION ✓ FIELD SANTA MARIA VALLEY ✓
 WELL NO. * REALTY #48-2 Sec. 2 ✓ T. 9N ✓ R. 33W ✓ S.B. B&M
 Signed A. McLean *A. McLean*
 DATE November 15, 1956 Title Agent

DIVISION OF OIL AND GAS
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 FEB 4 - 1957
 SANTA MARIA, CALIFORNIA

Date
1956

This well was drilled by the Santa Maria Drilling Company, a contractor, using portable rotary drilling equipment.

All measurements contained in this report refer to the kelly bushing, 12' above the concrete mat.

DRILLING AN EXPLORATORY WELLDRILLING TO 735'

9/12 Portable drilling equipment was moved in and rigged up. 12-1/4" hole was spudded
 to on September 12, 1956, and drilled to 735'. The hole was opened to 18-5/8" to
 9/13 710'. A Schlumberger electrical log was run 38'/730'.

CEMENTING 13-3/8" CASING AT 709'

9/14 13-3/8" O.D., new, 48#, H-40, 8-round thread casing with Baker guide shoe on bottom
 was cemented at 709' with 625 sax Permanente type "C" cement. (First 425 sax 3%
 gel mix. Slurry weight 110#. Last 200 sax neat treated with 2% calcium chloride,
 slurry weight 118#. Mixing time 30 minutes, displacement time 35 minutes. Cement
 was displaced by 599 cubic feet of mud. Plugs were not bumped. There were cement
 returns at the surface. Completed at 11:30 A.M. by Halliburton Oil Well Cementing
 Company.)

Blow-out prevention equipment was installed. The 13-3/8" casing was pressure tested
 with 1000 psi for 15 minutes with no loss in pressure. Cement and plugs were
 cleaned out and the shoe was drilled out at 709'. The hole was cleaned out to 735'.

DRILLING AND CORING 735'/2340'

9/15 12-1/4" hole was drilled 735'/2300'. A Core Laboratories, Inc., mud returns logging
 to service was installed and the cuttings were logged from 2000' to total depth.
 9/17

A Schlumberger electrical log was run 730'/2296'. 10-5/8" hole was cored and opened
 to 12-1/4" from 2300' to 2340'.

OPEN-HOLE FORMATION TEST OF INTERVAL 2230'/2340'

9/18 A Johnston formation tester was run on dry 4-1/2" drill pipe with Johnston jars
 and hydraulic valve, Baash-Ross safety joint above dual 11" packers; Johnston bumper
 sub, and left-hand and slip joint below packers; 110' of 4-1/2" O.D. tail including
 91' perforated, and two B.H.P. bombs on bottom. The 11" packers were set at 2220'
 and 2230' with the tail to 2340'. The drill pipe was pressured to 950 psi with

GENERAL PETROLEUM CORPORATION

HISTORY OF OIL OR GAS WELL

DIVISION OF OIL AND GAS
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FEB 4 - 1957
SANTA MARIA, CALIFORNIA

OPERATOR GENERAL PETROLEUM CORPORATION FIELD SANTA MARIA VALLEY
WELL NO. "REALITY" #48-2 Sec. 2 T. 9N R. 33W S.B. B&M
Signed A. McLean
DATE November 15, 1956 Title Agent

Date1956

Bloom nitrogen cushion. The surface valve was opened at 3:18 A.M., and the cushion was bled off to 0 psi in 97 minutes. There was a light to medium heading blow thereafter with gas indicated at the surface at 5:10 A.M. Died at 6:25 A.M. There were intermittent medium to light heading blows until noon when bailing was started.

BAILING THROUGH TESTER

9/19
to
9/20

2-1/8" bailer was run and fluid level was found at 880' indicating a net rise of 1350' (19 bbls.). 15 runs were made recovering approximately 1 gallon of gassy mud with spots of oil on each run. 2-5/8" bailer was run and pipe was bailed dry to 2190' recovering drilling fluid. No fluid entry was detected. The tester was open for a total of 55 hours from opening of surface valve to the time attempts were made to pull tester.

RECOVERING TESTER, MICROLOGGING, AND SIDEWALL SAMPLING

9/21
to
9/24

Attempts to pull the tester were unsuccessful.

Ford-Alexander free point indicator and back-off shots were run and the drill pipe was recovered to 1434'. Alternate washover and back-off operations were employed and the fish was completely recovered.

The bottom single of the tester was filled with tarry sand. B.H.P. charts showed a drop from the nitrogen cushion pressure of 1025 psi to an initial B.H.F.P. of 500 psi in the 97 minute bleed-off period, a constant pressure of 500 psi for the next 40 minutes, then a build-up to 580 psi in the next 10 minutes, then a gradual increase from 580 psi to 775 psi at the end of the 27-1/2 hour test period which was recorded on the pressure charts. No free oil was recovered.

The hole was reamed to 12-1/4" from 950' to 2340'. A Schlumberger microlog was run 1080'/2330' and 21 Homco sidewall samples were taken 337'/2151'.

DRILLING AND CORING 2340'/2924'

9/25
to
9/26

12-1/4" hole was drilled and cored 2340'/2704' with one core taken 2399'/2418'. 10-5/8" hole was cored 2704'/2724' and drilled 2724'/2924'. A Schlumberger electrical log was run 2296'/2924'.

OPEN-HOLE FORMATION TEST OF INTERVAL 2718'/2924'

A Johnston formation tester was run on dry 4-1/2" drill pipe with Johnston jars and hydraulic valve, Baash-Ross safety joint above dual 10" sidewall packers; Johnston bumper sub, left-hand slip joint below packers; 206' of tail including 184'

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 Signed A. McLean
 DATE November 15, 1956 Title Agent

Date

1956
9/27 perforated and two B.H.P. bombs on bottom. The 10" packers were set at 2711' and 2718' with tail to 2924'. The tester valve was opened at 6:49 A.M. There was a light steady blow for 8 minutes decreasing to a light to very light heading blow for 47 minutes, then dead for the remainder of test. The tester was closed at 7:49 A.M. after a 1 hour test. A net rise of 152' (2.2 bbls.) of mud with a very few small spots of tarry oil was recovered. The B.H.P. charts showed a drop from the mud column pressure of 1570 psi to 190 psi, then a gradual rise to 200 psi at the end of the test.

OPENING HOLE 2704'/2924' AND DRILLING 2924'/4000'

9/28
to
10/4 10-5/8" hole was opened to 12-1/4" 2704'/2924'. 12-1/4" hole was drilled 2924'/3798' and 10-5/8" hole was drilled 3798'/4000'. A Schlumberger electrical log was run 2924'/3998'.

OPEN-HOLE FORMATION TEST OF INTERVAL 3812'/4000'

10/5 A Johnston formation tester was run on dry 4-1/2" drill pipe with 188' of tail including 160' perforated, with two B.H.P. bombs on bottom. 10" packers were set at 3804' and 3812' with tail to 4000'. Valve was opened at 1:43 A.M. There was a medium light to light steady blow for 9 minutes, then a light heading blow for 35 minutes, followed by a light steady blow for the remainder of the test. The tester was closed at 2:43 A.M. after a 1 hour test, and a net rise of 458' (6.5 bbls.) was recovered including 1' of heavy tar on the top and 457' of slightly gas cut mud with an abundance of small tar balls scattered throughout. B.H.P. charts showed a drop from mud column pressure of 2120 psi upon opening tool to 320 psi, then a gradual rise to 590 psi at the end of the test.

OPENING HOLE 3798'/4000', DRILLING AND CORING 4000'/4510'

10/6
to
10/8 10-5/8" hole was opened to 12-1/4", 3798'/4000'. 10-5/8" hole was cored and drilled 4000'/4500', and an 8-5/8" Macready oriented core was taken 4500'/4510'. A Schlumberger electrical log was run 3998'/4507'.

FORMATION TEST AT 2282'

10/9 A Schlumberger wire line formation tester was set at 2282', and opened for 10 minutes. There was no recovery. An initial flow pressure of 800 psi was indicated and bled off to 0 psi at the end of the test.

DRILLING AND CORING 4510'/4788'

10/10
to
10/14 10-5/8" hole was opened to 12-1/4" from 4000' to 4510', and 12-1/4" hole was drilled 4510'/4768'. 10-5/8" hole was cored, then opened to 12-1/4" 4768'/4788'. An electrical log was run 4507'/4786', a microlog was run 2330'/4783', and a continuous

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OPERATOR GENERAL PETROLEUM CORPORATION FIELD SANTA MARIA VALLEY
 WELL NO. "REALITY" #48-2 Sec. 2 T. 9N R. 33W S.B. B&M
 Signed A. McLean
 DATE November 15, 1956 Title Agent

Date

1956

dipmeter was run 1000'/4783'; all by Schlumberger. A Seismograph Service Corporation continuous velocity log was run 709'/4780'.

PLUGGING FROM 4788' TO 1687'

10/15 With 4-1/2" open end drill pipe hung at 2325', 550 sax of Permanente type "C"
 to construction cement was pumped in with the first 100 sax mixed with 10 sax of
 10/16 sand. (Mixing time was 22 minutes and displacing time was 3 minutes. Finished
 at 8:25 P.M. by Halliburton Oil Well Cementing Company.)

Cement was found at 1266' and was cleaned out to 1687'.

REDRILLING AND CORING 1687'/2406'

10/17 An Eastman knuckle joint was used to sidetrack the plug at 1687', and 10-5/8" hole
 to was redrilled and opened to 12-1/4" from 1687' to 1722'. 12-1/4" hole was redrilled
 10/19 1722'/1800'. 10-5/8" hole was cored and opened to 12-1/4" from 1800' to 1820'.
 12-1/4" hole was redrilled 1820'/2100' and 10-5/8" hole was cored 2100'/2406'. A
 Schlumberger electrical log was run 1600'/2403', and a multi-shot survey was run.

PLUGGING AND ABANDONING

10/20 With 4-1/2" open end drill pipe hung at 1500', 85 sax of cement treated with 2%
 to calcium chloride were pumped in. (Finished at 4:15 P.M. by Halliburton Oil Well
 10/22 Cementing Company.) The top of the cement was found at 1340'. The location and
 hardness of the cement plug were witnessed and approved by the Division of Oil and
 Gas.

With 4-1/2" open end drill pipe hung at 730', 40 sax of cement treated with 2%
 calcium chloride were pumped in. (Finished at 1:10 A.M. by Halliburton Oil Well
 Cementing Company.) The top of the cement was found at 674' and the plug was wit-
 nessed and approved by the Santa Barbara County Oil Well Inspector.

13-3/8" pipe was cemented from 10' to the surface, and a steel plate was welded
 on top.

The contractor was released, and the well was abandoned at 8:00 A.M. on October 22, 1956.

GENERAL PETROLEUM CORPORATION

HISTORY OF OIL OR GAS WELL

OPERATOR GENERAL PETROLEUM CORPORATION FIELD SANTA MARIA VALLEY
 WELL NO. "REALTY #48-2" Sec. 2 T. 9N R. 33W S.B. B&M
 Signed A. McLean *L.M. Mc Kenzie*
 DATE November 15, 1956 Title Agent

Date
1956

CONDITION OF WELL AS ABANDONED

CASING RECORD: 13-3/8" casing cemented at 709'
TOTAL DEPTH: 4788'
PLUGS: 1687' w/550 sax
 1340' w/85 sax
 674' w/40 sax
 10' to surface

JUNK: None

HOLE SIZE SUMMARY:
 (Original Hole)
 18-5/8" Surface to 710'
 12-1/4" 710' to 4788'
 (Redrill)
 12-1/4" 1687' to 2100'
 10-5/8" 2100' to 2406'

H. N. PORTER

DIVISION OF OIL AND GAS
 RECEIVED
 FEB 4 - 1957
 SANTA MARIA, CALIFORNIA

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
					2-4-57 M

COMPANY GENERAL PETROLEUM CORP.

LEASE "REALTY"

WELL NO. 48-2

ELEVATION 568' K.B. LOCATION: 330.02' W'ly along S. line Section 2, T.9 N., R.33 W.,
from S/4 corner and 329.76' N'ly at right angles.

SPUDED September 12, 1956

~~COMPLETED~~ ABANDONED October 22, 1956

TOP	BOTTOM	REC'Y	FORMATION
0	735		Sand and clay.
735	1291		Sand and gravel.
1291	1778		Sand and shale.
1778	2167		Shale.
2167	2300		Shale and sand.
2300	2314	14'	<u>CORE #1 2300'/2320' Rec. 20'</u> Oil sand, black, tarry, soft, sticky, easily friable, fine, locally silty, massive, generally well sorted, well rounded, good tarry oil odor, appears somewhat live, with sand grains evenly stained on individual surfaces, not crystalline tar.
2314	2320	6'	Shale, dark greenish brown, hard, fairly dense, fractured, slickensided and fragmented, locally abundant forams and common fish scales, locally well bedded and laminated, with good 25° dip, no odor, stain or cut.
2320	2340	20'	<u>CORE #2 2320'/2340' Rec. 20'</u> Shale, olive green, with brownish cast, brittle, well bedded, scattered shattering, generally biscuit partings, occasional thin streaks of whitish tan bentonite, scattered to common forams and occasional fish scales, fair to good 23-28° dip, no odor, stain or cut.
2340	2399		Shale.
2399	2418	19'	<u>CORE #3 2399'/2418' Rec. 19'</u> Shale, grayish-brown, with occasional to frequent nests of very fine, well sorted, light gray sand, hard but friable with some difficulty, with some fracturing in middle portion of core, megafossils present in fair abundance, no odor, very light brown cut and mottled very pale yellow fluorescence in middle portion of core, dips on bedding of approximately 30°. <i>3 p/oz Rothert's Robert Does not sound like a sandstone</i>
2418	2704		Shale and chert.
2704	2719	15'	<u>CORE #4 2704'/2724' Rec. 15'</u> Shale, dark brown, with 30% interbeds up to 3" of light tan cherty shale, generally firm, dense, locally very hard, tough to brittle with common fracturing ranging from uneven to conchoidal, locally fissile, well bedded, locally varved, common to abundant oil coatings along fracturing planes, lower 3' of core minutely shattered with very abundant heavy oil coatings, having dull bronze fluorescence, scattered to abundant forams throughout, common gas bubbles on mud sheath, having sweet oil odor, 2 second blue flash on core barrel, good 15-20° dip.
2719	2724		<u>Missed.</u>

COMPANY GENERAL PETROLEUM CORP. LEASE "REALTY "

WELL NO. 48-2

ELEVATION 568' K.B. LOCATION: 330.02' W'ly along S. line Section 2, T.9 N., R.33 W.,
from S/4 corner and 329.76' N'ly at right angles.

SPUDED September 12, 1956

~~COMPLETED~~ ABANDONED October 22, 1956

TOP	BOTTOM	REC'Y	FORMATION
2724	2820		Shale.
2820	2924		Shale and chert.
2924	2931		Chert.
2931	3340		Shale.
3340	3391		Shale and chert.
3391	3650		Shale.
3650	3720		Shale and chert.
3720	4000		Shale.
			CORE #5 4000'/4020' Rec. 19'
4000	4019	19'	Shale, medium to dark brown, somewhat fissile, firm, laminated throughout with thin light tan limey streaks which readily effervesce with HCL, scattered to common thin lentils of whitish gray bentonite, common to abundant slickensides throughout, scattered forams throughout, scattered tar staining along fractures and limey streaks having heavy oil odor, gas bubbles on mud sheath, fair to good 25-30° dip, five second blue flash on core barrel.
4019	4020		<u>Missed.</u>
4020	4250		Shale.
			CORE #6 4250'/4270' Rec. 20'
4250	4270	20'	Siltstone, shaly, gray-brown, fairly firm, locally fissile, generally slickensided and hackly fracturing throughout, fair to good bedding, micro-micaceous, scattered very fine sandy grits, scattered to abundant forams throughout, scattered fish scales, locally forams are pyritized, few irregular calcitic clayey veinlets along sub-waxy slickensided surfaces. Good 30-35° dips throughout, 1-1/2 second blue flash on core barrel, no tar or oil stains noted, gas bubbles absent from mud sheath.
4270	4500		Shale.
			CORE #7 4500'/4509' Rec. 8-1/2' (Oriented)
4500	4508-1/2	8-1/2	Siltstone, shaly, brown, fairly crumbly, brittle to tough locally, hackly to cleavage fracture, somewhat massive, locally bedded with thin streaks up to 1/8" of blue-gray claystone, micro-micaceous, abundant forams and common fish scales throughout, common slickensides having sub-waxy lustre. Generally poor dip with good 47° dip locally, on blue-gray claystone laminae, no odor, stain or cut.
4508-1/2	4509		<u>Missed.</u>

DIVISION OF OIL AND GAS
RECEIVED
FEB 4 - 1957
SANTA MARIA, CALIFORNIA

COMPANY GENERAL PETROLEUM CORP. LEASE REALTY " WELL NO. 48-2
 ELEVATION 568' K.B. LOCATION: 330.02' W'ly along S. line Section 2, T.9 N., R.33 W.,
 from S/4 corner and 329.76' N'ly at right angles.
 SPUDDED September 12, 1956 ~~COMPLETED~~ ABANDONED October 22, 1956

TOP	BOTTOM	REC'Y	FORMATION
4509	4740		Shale.
4740	4768		Sand and shale.
4768	4783	15'	<u>CORE #8 4768'/4788' Rec. 15'</u> Sandstone, dark blue-gray, medium-fine, hard, indurated, massive to locally bedded with fine sandy carbonaceous platy siltstone, micro-micaceous, scattered irregular calcitic veinlets, core generally fractured, fragmented with common slickensides (soft brittle gouge appear 4' and 7' from base of core), rare scattered nests of pyrite, scattered multi-colored quartz grits, very rare spotty medium brown oil stain, very weak fluorescence. Good 57-65° dip.
4783	4788		<u>Missed.</u>
<u>REDRILL</u>			
1687	1800		Shale.
1800	1816	16'	<u>CORE #1 1800'/1820' Rec. 16'</u> Sand, gray-olive-green, fine grained, soft and loose, rounded to sub-angular grain shape, fair sorting, predominantly quartz and feldspar with clayey matrix, massive throughout, appears wet, no odor, stain or cut.
1816	1820		<u>Missed.</u>
1820	2100		Sand and shale.
2100	2118	18'	<u>CORE #2 2100'/2120' Rec. 18'</u> Sand, greenish gray, silty, very fine to fine, friable with ease, round to sub-angular, poorly sorted, massive, fair appearing porosity and permeability, mega-fossils present in abundance. No odor, stain or cut. Three second flash on core barrel. Few gas bubbles on mud sheath.
2118	2120		<u>Missed.</u>
2120	2137	17'	<u>CORE #3 2120'/2140' Rec. 17'</u> Sand, grayish-green, fine grained with less silty matrix than core above, soft and loose, rounded to sub-angular, fair to good sorting, predominantly quartz and feldspar with scattered dark mineral assemblage, massive throughout, scattered mega-fossils, no odor, stain or cut, approximately four second flash upon opening core barrel, scattered gas bubbles on mud sheath.
2137	2140		<u>Missed.</u>

DIVISION OF OIL AND GAS
 RECEIVED
 FEB 4 - 1957
 SANTA MARIA, CALIFORNIA

COMPANY GENERAL PETROLEUM CORP. LEASE REALTY

WELL NO. 48-2

ELEVATION 568' K.B. LOCATION: 330.02' W'ly along S. line Section 2, T.9 N., R.33 W.,
from S/4 corner and 329.76' N'ly at right angles.

SPUDDED September 12, 1956

~~COMPLETED~~ ABANDONED October 22, 1956

TOP	BOTTOM	REC'Y	FORMATION
2140	2152	12'	<u>CORE #4 2140'/2156' Rec. 12'</u> Sand, gray, very fine to fine, readily friable, sub-angular, well sorted, massive, fair porosity and permeability, with an 8" stringer of clay, dark gray, soft at top of core. Many mega-fossils present throughout core. No odor, stain or cut. Scattered gas bubbles on mud sheath.
2152	2156		<u>Missed.</u>
2156	2157	1'	<u>CORE #5 2156'/2166' Rec. 7'</u> Sandstone, medium gray, fine to medium, calcareous cementing, friable with difficulty, round to sub-angular, well sorted. Abundance of mega-fossils throughout.
2157	2163	6'	Oil sand, tarry, brownish gray to black, slightly silty, fine, sub-angular, fair sorted, massive with frequent nests and streaks of wet gray sand. Good porosity and permeability. Many mega-fossils present throughout. Dark brown cut. Heavy oil odor.
2163	2166		<u>Missed.</u>
2166	2183	17'	<u>CORE #6 2166'/2186' Rec. 17'</u> Oil sand, grayish to brown-black, predominantly fine grained, with silty matrix, soft and loose, rounded, sub-angular, fair sorting, massive throughout, scattered mega-fossils, fair tar staining with intermittent spots of wet gray sand, heavy tar odor, brownish-black cut, gas bubbles on mud sheath.
2183	2186		<u>Missed.</u>
2186	2204	18'	<u>CORE #7 2186'/2206' Rec. 18'</u> Sand, medium gray, silty, fine grained, readily friable, round to sub-angular, well sorted, massive, good porosity and permeability, few mega-fossils scattered throughout, no odor, stain or cut, no gas bubbles on sheath.
2204	2206		<u>Missed.</u>
2206	2209	3'	<u>CORE #8 2206'/2226' Rec. 3'</u> Sand, gray, fine grained, somewhat silty matrix, soft and loose, easily friable, rounded, sub-angular grain shape, fair sorting, massive throughout, scattered mega-fossils, no odor, stain or cut.
2209	2226		<u>Missed.</u>
2226	2227	1'	<u>CORE #9 2226'/2236' Rec. 1'</u> Sand, gray, fine, silty, easily friable, sub-angular, well sorted, massive, few mega-fossils, no odor, stain or cut.
2227	2236		<u>Missed.</u>

COMPANY GENERAL PETROLEUM CORP.

LEASE "REALTY"

WELL NO. 48-2

ELEVATION 568' K.B. LOCATION: 330.02' W'ly along S. line Section 2, T.9 N., R.33 W.,
from S/4 corner and 329.76' N'ly at right angles.

SPUDED September 12, 1956

~~COMPLETER~~ ABANDONED October 22, 1956

TOP	BOTTOM	REC'Y	FORMATION
2236	2237	1'	<u>CORE #10 2236'/2246' Rec. 1'</u> Sand, same as Core #9 redrill.
2237	2246		<u>Missed.</u>
2246	2248	2'	<u>CORE #11 2246'/2251' Rec. 2'</u> Sand, medium gray, with mottled dark brown oil stain in top 6", silty, round to sub-angular, readily friable, poorly sorted, massive, poor porosity and permeability, few mega-fossils, scattered throughout. Oil stained sand has dark brown cut.
2248	2251		<u>Missed.</u>
2251	2255	4'	<u>CORE #12 2251'/2256' Rec. 4'</u> Sand, gray, fine, with silty matrix, soft, fairly loose, rounded to sub-angular, fair to poor sorting, massive, no odor, stain or cut. Rare to scattered gas bubbles on mud sheath.
2255	2256		<u>Missed.</u>
2256	2265	9'	<u>CORE #13 2256'/2266' Rec. 9'</u> Sand, gray, fine, silty matrix, firm and friable, rounded to sub-angular, fair to poor sorting, massive, appears wet, no odor, stain or cut, gas bubbles on mud sheath.
2265	2266		<u>Missed.</u>
2266	2269	3'	<u>CORE #14 2266'/2276' Rec. 3'</u> Tar sand, gray to brownish black, fine and silty, fairly firm, rounded to sub-angular, poor sorting, massive, mottled tar staining throughout, heavy tar odor, medium dark brown cut, abundant gas bubbles on mud sheath.
2269	2276		<u>Missed.</u>
2276	2286	10'	<u>CORE #15 2276'/2286' Rec. 10'</u> Tar sand, dark brown to black, silty, readily friable, very fine to fine, poorly sorted, sub-angular, massive, evenly saturated, with an 8" stringer of sandstone, medium gray, hard, with calcareous cementing about 6' from top of core. Dark brown cut from tar sand, heavy oil odor, scattered gas bubbles on mud sheath.
2286	2305	19'	<u>CORE #16 2286'/2306' Rec. 19'</u> Tar sand, same as above core, except for 6' portion beginning 4' from top of sand, medium gray, silty, fine, poorly sorted, with mottled dark brown tar stain.
2305	2306		<u>Missed.</u>

COMPANY GENERAL PETROLEUM CORP. LEASE "REALTY" WELL NO. 48-2

ELEVATION 568' K.B. LOCATION: 330.02' W'ly along S. line Section 2, T.9 N., R.33 W.,
from S/4 corner and 329.76' N'ly at right angles.

SPUDED September 12, 1956

~~COMPLETED~~ ABANDONED October 22, 1956

TOP	BOTTOM	REC'Y	FORMATION
2306	2325	19'	<u>CORE #17 2306'/2326' Rec. 19'</u> Tar sand, dark brown to black, silty, fine, soft and readily friable to mushy in upper 10', round to sub-angular, poorly sorted, massive, evenly saturated, strong heavy oil odor.
2325	2326		<u>Missed.</u>
2326	2337	11'	<u>CORE #18 2326'/2346' Rec. 19'</u> Tar sand, same as above, but not mushy, evenly saturated, strong asphaltic odor.
2337	2345	8'	Sand, medium gray, with mottled dark brown tar stain, silty, fine, readily friable, poorly sorted, massive, weak tarry odor.
2345	2346		<u>Missed.</u>
2346	2352	6'	<u>CORE #19 2346'/2366' Rec. 19'</u> Sand, medium gray with mottled dark brown tar stain, same as above.
2352	2365	13'	Tar sand, dark brown to black, silty, very fine to fine, soft and mushy, poorly sorted, sub-angular, massive, evenly saturated, strong tarry odor, dark brown cut.
2365	2366		<u>Missed.</u>
2366	2386	20'	<u>CORE #20 2366'/2386' Rec. 20'</u> Tar sand, dark brown to black, fine to very fine, silty matrix, soft and mushy, poor sorting, sub-angular, massive, even tar saturation, sweet tar odor, dark brown to black cut, abundant gas bubbles and oil spots on mud sheath.
2386	2398	12'	<u>CORE #21 2386'/2406' Rec. 20'</u> Tar sand, same as above.
2398	2406	8'	Shale, greenish gray, sandy throughout, friable, with difficulty, well bedded with abundant laminae of foraminiferous material. No odor, stain or cut. Dips of approximately 35° on bedding planes.

TOTAL DEPTH: 4788'
REDRILL DEPTH: 2406'DIVISION OF OIL AND GAS
RECEIVED
FEB 4 - 1957

SANTA MARIA, CALIFORNIA

GENERAL PETROLEUM CORPORATION, REALTY #48-2

DEPARTMENT OF OIL AND GAS
RECEIVED
FEB 4 - 1957
SANTA MONICA, CALIFORNIA

HOMCO SIDEWALL SAMPLES

<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
1835'	5"	Sand, brownish-medium gray, fine to very fine, somewhat firm, but easily friable, rounded to sub-angular, well sorted, appears clean and wet, predominantly quartz and feldspar, massive, no odor, stain, cut or fluorescence.
1948'	5"	Sand, brownish-gray, very fine to fine, firm but friable with ease, round to sub-angular grains, well sorted, massive, appears clean and wet, no odor, stain, cut or fluorescence.
2082'	6-1/2"	Sand, brown-medium gray, fine with silty background, somewhat firm and brittle, but easily friable, angular to sub-angular grains, fair to poor sorting, predominantly quartz and feldspar with abundant dark mineral assemblages, appears dirty, massive, no odor, stain, cut or fluorescence.
2086'	7"	Sand, brown-medium gray, fine with silty matrix, fairly firm, friable, angular to sub-angular grains, fair to poor sorting, appears dirty, massive, no odor, stain, cut or fluorescence.
2092'	6-1/2"	Sand, medium gray, fine, fairly soft to firm, friable, rounded to sub-angular grains, fair to good sorting, appears partly dirty, predominantly quartz and feldspars, massive, no odor, stain, cut or fluorescence.
2100'	3"	Sand, medium gray, fine, soft and easily friable, rounded to sub-angular grains, well sorted, appears clean, predominantly quartz and feldspar with scattered dark mineral assemblages, massive, no odor, stain, cut or fluorescence.
2114'	6"	Oil sand, light to dark gray, fine, soft and readily friable, sub-angular grains, fairly well sorted, massive, some shell fragments present, very faint heavy oil odor, dark brown cut, mottled light yellow fluorescence.

GENERAL PETROLEUM CORPORATION, "REALTY" #48-2

DIVISION OF OIL AND GAS
RECEIVED
FEB 4 - 1957
SANTA ANA, CALIFORNIA

HOMCO SIDEWALL SAMPLES

<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
2122'	5"	Oil sand, dark brown to black, fine grained, soft and easily friable, angular to sub-angular grains, poorly sorted, massive, evenly saturated throughout, many shell fragments present, pale yellow fluorescence, good heavy oil odor.
2127'	6-1/2"	Oil sand, brown to black, fine, soft and friable with ease, rounded to sub-angular, well sorted, massive, fairly even saturation throughout, some shell fragments present, pale yellow fluorescence, fair tarry odor.
2135'	6-1/2"	Oil sand, light to dark gray, fine, with frequent nests and streaks of greenish-gray sand, soft and readily friable, angular to sub-angular, fairly well sorted, massive, faint tarry odor, dark brown cut, mottled pale yellow fluorescence.
2146'	6-1/2"	Oil sand, tarry, dark brown to black, fine, intermittent streaks of gray to greenish sand, fairly soft but somewhat friable, rounded to sub-angular, well sorted and fairly clean, predominantly quartz and feldspar, crystalline, massive, fair to good heavy tar odor, dark brown cut, mottled pale yellow fluorescence.
2154'	5"	Oil sand, light brownish gray, fine grained, firm but readily friable, rounded to sub-angular, fair to good sorting, predominantly quartz and feldspar, massive, intermittent to streaky petroleum saturation, faint odor, dark brown cut, light pale yellow fluorescence.
2158'	5"	Sand, light to dark gray, fine grained, firm but readily friable, sub-angular grains, well sorted, massive, appears clean, no odor, stain, cut or fluorescence.
2163'	5"	Sand, medium gray, fine, soft, friable, rounded to sub-angular, fair to good sorting, predominantly quartz grains, massive, shell fragments throughout, appears fairly clean, no odor, stain, cut or fluorescence.

DIVISION OF OIL AND GAS
RECEIVED
FEB 4 - 1957
SANTA ANA, CALIFORNIA

HOMCO SIDEWALL SAMPLES

<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
2170'	6"	Sand, brownish gray, fine grained, readily friable, fairly well sorted, round to sub-angular, massive, appears fairly clean, no odor, stain or cut, no fluorescence.
2180'	4"	Sand, medium gray, fine, easily friable, fair sorting, rounded to sub-angular, massive, appears wet, predominantly quartz and feldspars, shell fragments present, no odor, stain, cut or fluorescence.
2195'	4-1/4"	Sand, medium gray, fine, firm, friable, massive, well sorted, appears fairly clean, sub-angular grains, no odor, stain, cut or fluorescence.
2200'	5-1/2"	Sand, brownish gray, silty, fine grained, fairly firm, massive, sub-angular grains, fairly well sorted, appears tight, no odor, stain or cut, no fluorescence.
2210'	5-1/2"	Silty sand, gray, fine, fairly firm, massive, angular to sub-angular grains, poor sorting, tight appearing, predominantly quartz and feldspars, no odor, stain, cut or fluorescence.
2213'	6-1/2"	Sand, medium gray, silty, fine, fairly firm, massive, fair sorting, sub-angular grains, appears tight, no odor, stain or cut, no fluorescence.
2225'	5-1/2"	Oil sand, tarry, brown to black, fine grained, with few nests of gray siltstone, sub-angular grains, fair assortment, massive, fairly even saturation, very pale yellow fluorescence, weak tarry odor.
2234'	6"	Oil sand, tarry, grayish brown to black, fine grained, somewhat silty, occasional streaks and nests of gray siltstone, angular to sub-angular grains, poor assortment, massive, mottled to even saturation, even pale yellow fluorescence, gassy oil odor.

GENERAL PETROLEUM CORPORATION, "REALTY" #48-2

DIVISION OF OIL AND GAS
RECEIVED
FEB 4 - 1957

HOMCO SIDEWALL SAMPLES

SANTA MARIA, CALIFORNIA

<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
2244'	6-1/2"	Oil sand, tarry, brown to black, fine, somewhat silty, occasional grits, fairly soft, friable, unevenly saturated, poorly sorted, weak tarry odor, mottled bronze and pale yellow fluorescence.
2253'	6"	Oil sand, tarry, black with nests of gray mudstone throughout, soft and easily friable, round to sub-angular grains, fairly well sorted, massive, mottled to fair saturation, spotty, pale yellow fluorescence, faint tarry odor.
2260'	6"	Oil sand, silty, brown with intermittent spots of gray mudstone, mottled to fair saturation, rounded to sub-angular grains, uneven assortment, massive, somewhat mushy, faint tarry odor, pale yellow fluorescence.
2267'	6-1/2"	Siltstone, very fine, sandy, with mottled medium brown oil stain, blue gray, clayey, firm, friable, weak, heavy oil odor, mottled pale yellow fluorescence.
2272'	6-1/2"	Oil sand, tarry black, with frequent nests of gray siltstone, soft and readily friable, well sorted, rounded to sub-angular grains, massive, tarry odor, pale yellow fluorescence.
2278'	4-1/2"	Oil sand, tarry, black, fine, mushy, good even saturation throughout, massive, rounded to sub-angular quartz grains, good heavy oil odor, pale yellow fluorescence.
2283'	6"	Oil sand, tarry, black, fine, soft, plastic, highly saturated, massive, well sorted, sub-rounded grains, good live heavy oil odor, pale yellow fluorescence.
2287'	6"	Oil sand, tarry, black with frequent nests of gray mudstone, soft and easily friable, well sorted, massive, fairly well saturated throughout with scattered portions less saturated, very pale yellow fluorescence, tarry odor.

GENERAL PETROLEUM CORPORATION, REALTY #48-2

LABORATORY RECEIVED
FEB 4 - 1957
SANTA MESA, CALIFORNIA

HOMCO SIDEWALL SAMPLES

<u>DEPTH</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
2292'	5-1/2"	Oil sand, tarry, black with scattered gray mudstone, soft and easily friable, predominantly well sorted throughout, rounded to sub-angular quartz grains, massive, fairly even saturation throughout, appearing less saturated than 2297' sample, pale yellow fluorescence, heavy oil or tarry odor.
2297'	4"	Oil sand, tarry, black, fine, soft, friable, well sorted, massive, even rich saturation throughout, grains well rounded, pale yellow fluorescence, good heavy oil odor.

SPUDDED:
CEMENTED:

502-3

COUNTY OF SANTA BARBARA
STATE OF CALIFORNIA
Special Report on Oil Operations Witnessed

ABANDONMENT

No. 2212

Santa Maria, Calif. October 22, 1956

Mr. J. J. Sahillinger
612 South Flower Street
Los Angeles 54, California

DIVISION OF OIL AND GAS
RECEIVED
OCT 25 1956

Agent for General Petroleum Corporation

SANTA MARIA, CALIFORNIA

Dear Sir:

Operations at your well Realty No. 48-2 Sec. 2, T. 9N, R. 33W, S. B. B. & M.

West Cat Canyon Oil Field, in Santa Barbara County, were witnessed by

G. E. Dyer, representative of the County

on October 21, 1956. There was also present Mr. George Birt for Santa Maria Drilling Company and Mr. Dave Keefe engineer for General Petroleum Corporation.

Casing Record : 9-14-56 Set and cemented 710 ft. of 13 3/8 in. O.D. 48 lb. surface casing.

The operations were performed for the purpose of abandonment.

and the data and conclusions are as follows: Mr. Keefe reported as follows:
Total depth of original hole 4788 feet plugged back to 1687 feet.

Total depth of redrill 2386 feet.

Hung drill pipe at 1500 feet, 85 sacks cement pumped into hole by Halliburton Oil Well Cementing Company. After setting, located top of cement at 1400 feet.

Raised drill pipe to 730 feet, pumped in 40 sacks cement. After setting and in presence of County representative, located top of cement at 666 feet, leaving a 64 foot plug 20 feet below shoe and 44 feet above shoe.

Oral approval of abandonment procedure is herewith confirmed.

A ten foot cement plug to be left in top of surface casing and casing to be cut off below cultivation level. All equipment and debris to be removed, all pits to be filled in and leveled and premises to be left as near as possible in original condition.

SANTA BARBARA COUNTY OIL WELL INSPECTOR

By C. E. Dyer

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P. 356-432

Mr. Alex McLean
P O Box 770
Ventura California
Agent for General Petroleum Corp

Santa Maria, Calif.
October 23, 1956

DEAR SIR:

Your abandon proposal to Well No. "Realty" 48-2,
Section 2, T. 9N., R. 33W., S.B. B. & M., Field, Santa Barbara County,
dated Oct. 22, 1956, received Oct. 23, 1956, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"THE PRESENT CONDITION OF THE WELL IS:

1. Total Depth: 4788'
R.D. Depth: 2406'
 2. Complete casing record, including plugs:
13-3/8" casing cemented at 709'
 3. Last Produced (Never produced)
(Date) (Oil, B/D) (Water, B/D)
- Additional Data For Dry Hole
4. Oil or Gas showings and results of tests:
(Previously given in Notice of October 16, 1956)
 5. Stratigraphic markers and depths:
Top Flinn: 1450' Top Siltstone &
Top Siqoo: 2010' Shell: 4000'
Top Miocene: 2314' Top Knoxville: 4610'
 6. Geologic age at bottom: Knoxville - Jurassic
 7. Base of Fresh Water Sands: 1450'

PROPOSAL:

"THE PROPOSED WORK IS

1. Plug with cement from 1500/1400' with 85 sax. (across base of fresh water). Top of plug to be witnessed by Division of Oil and Gas.
2. Plug with cement from 730/685' with 40 sax. Top of plug to be witnessed by Santa Barbara County Oil Well Inspector.
3. Plug with 8 sax cement from 10' to surface.
4. Weld steel plate on top of 13-3/8" casing and abandon."

DECISION:

THE PROPOSAL IS APPROVED.

This proposal covers work already completed and the required tests have been made. This will confirm oral approval of the abandonment procedure given prior to the time abandonment work was started.

Blanket bond

CC: Messrs. Wadsworth, DeMaris, MacKenzie, Jr. By [Signature], Deputy
Mr C E Dyer

Forms	121	
	114	
Bond No.	115	
Map Letter		
Map No.		

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
OCT 23 1956
SANTA MARIA, CALIFORNIA

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

Ventura, Calif. October 22, 19 56

DIVISION OF OIL AND GAS

In compliance with Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon

Well No. "Realty" 48-2 ✓, Sec. 2, T. 9N,

R. 33W ✓, S.B. B. & M., (Exploratory) Field, Santa Barbara ✓ County,

commencing work on October 20, 19 56.

THE PRESENT CONDITION OF THE WELL IS:

- 1. Total Depth: 4788'
- R.D. Depth: 2406'
- 2. Complete casing record, including plugs:

13-3/8" casing cemented at 709'

ADDITIONAL DATA FOR DRY HOLE

- 4. Oil or Gas showings and results of tests:

(Previously given in Notice of October 16, 1956)
- 5. Stratigraphic markers and depths:
Top Foxen: 1450' Top Siltstone & Shell: 4000'
Top Sisquoc: 2010' Top Knoxville: 4610'
Top Miocene: 2314'
- 6. Geologic age at bottom: Knoxville - Jurassic
- 7. Base of fresh water sands: 1450'

3. Last Produced (Never produced)
(Date) (Oil, B/D) (Water, B/D)

THE PROPOSED WORK IS

- 1. Plug with cement from 1500/1400' with 85 sax. (across base of fresh water). Top of plug to be witnessed by Division of Oil and Gas.
- 2. Plug with cement from 730/685' with 40 sax. Top of plug to be witnessed by Santa Barbara County Oil Well Inspector.
- 3. Plug with 8 sax cement from 10' to surface.
- 4. Weld steel plate on top of 13-3/8" casing and abandon.

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
				10-23-56 M	10-23-56 M

P. O. Box 770, Ventura (Address)
Miller 3-5451 (Telephone No.)

GENERAL PETROLEUM CORPORATION (Name of Operator)
By [Signature] for A. McLean, Agent

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 356-203

Mr. Alex McLean
P O Box 770
Ventura California
Agent for General Petroleum Corp

Santa Maria, Calif.
October 22, 1956

DEAR SIR:

Operations at your well No. "Realty" 48-2 Sec. 2, T. 9 N., R. 33 W., S.B. B. & M.,
Field, in Santa Barbara County, were witnessed
on October 20, 1956. Mr. Eugene D. Lawrence, representative of the supervisor was present
from 10:30 p.m. to 11:30 p.m.. There were also present B. L. Kobel, driller, and G. Sprik,
helper

Present condition of well: 13 3/8" cas., 709'; total depth: (present hole) 2406'. Plugged
with cas. 1500' to 1340'. Junk: Total depth (1st hole) 4788'.

The operations were performed for the purpose of testing the location and hardness of a cement
plug required to be placed from 1500' to 1340' in the process of abandonment.
Mr. B. L. Kobel reported:

1. A 12 1/4" hole was drilled from the surface to 735' (enlarged to 18 5/8" to 709').
2. On September 14, 1956, 13 3/8", 48 lb. casing was cemented at 709' with 425 sacks of cement (plus 3% gel) followed by 200 sacks neat cement.
3. A 12 1/4" hole was drilled from 735' to 4788'.
4. On October 15, 1956, 550 sacks of cement was pumped into the hole through 4 1/2" drill pipe hanging at 2325', filling to 1266'.
5. The cement was drilled out of the hole from 1266' to 1700'.
6. A 12 1/4" hole was drilled from 1700' to 2100' and a 10 5/8" hole to 2406'.
7. On October 20, 1956, 85 sacks of cement was pumped into the hole through 4 1/2" drill pipe hanging at 1500'.

The inspector noted the following:

1. The cement plug at the reported depth of 1340' supported three points of the weight of the drill pipe.
2. The driller's tally showed 1340' of drill pipe in the hole.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 1340' ARE APPROVED.

CC: Mr E. L. Wadsworth

E. H. MUSSER

Mr E. H. Mussers No. 115	Bond No.	Forms			State Oil and Gas Supervisor
		115	114	121	
Mr James Mackenzie					By <u>[Signature]</u> Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCESDIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONSNo. P. 356-427Mr. Alex McLean
P O Box 770
Ventura Calif
Agent for General Petroleum CorpSanta Maria Calif.
October 17, 1956

DEAR SIR:

Your supplementary proposal to drill Well No. "Realty" 48-2,
Section 2, T. 9 N., R. 11W., S. B. B. & M., Field, Santa Barbara County,
dated Oct. 16, 1956, received Oct. 17, 1956, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

*The present condition of the well is as follows:

1. Total depth. 4788'
 2. Complete casing record. 13-3/8" casing cemented at 709'
 3. Last produced. (Never produced)
- | (Date) | (Net Oil) | (Gravity) | (Cut) |
|--------|-----------|-----------|-------|
| | | | |

This well found the top of the Miocene (Monterey formation) at 2314', the top of the Siltstone and Shell at 4000' and the top of the Knoxville at 4610'. Two open-hole tests were made in the Miocene in the intervals 2718/2924' and 3612/4000' and each resulted in recovery of a small amount of mud with spots of tarry oil. No commercial oil shows were encountered in the Miocene. It is now proposed to redrill and core the Siqueac tar sands between 2100' and 2325'."

PROPOSAL:

*The proposed work is as follows:

1. Plug 12-1/4" hole solidly with cement from 2325' with 550 sack mixed with 10% sand.
2. Clean out plug to 1600'.
3. Redrill 12-1/4" hole 1600'/1800' building inclination at approximately 3°/100'.
4. Core 10-5/8" hole 1800'/1820' (basal Foxen sand).
5. Open 10-5/8" hole to 12-1/4" and redrill 12-1/4" hole 1820'/2100'. Continue to increase inclination at 3°/100' to approximately 12°.
6. Core 10-5/8" hole 2100'/2325' (top Miocene) holding inclination at approximately 12°.

SPECIAL CORING INSTRUCTIONS:

- a. The length of individual core is to be limited to 20'.
- b. Should recovery of any core be less than 50%, the length of the succeeding core is to be limited to no more than 10'.
- c. If poor recovery is obtained in two successive cores, coring is to be temporarily suspended until orders from G.P. Drilling Department are obtained as to changes in the coring procedure.

E. H. MUSSER, State Oil and Gas Supervisor

By Continued, Deputy

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P. 356-427

Page 2

General Petroleum Corp Company

Well No. "Realty" 48-2, Section 2, T. 9 N., R. 33 W., S. 8. B. & M.

NOTE: Sidetracked hole should be at least 50' horizontally from original hole at 2325'.

7. Run electrical log 1600'/2325'. Run multi-shot survey. Upon completion of this work, a further program will be issued."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT the well is drilled in a manner to comply with the requirements outlined under the heading "DECISION" on our report No. P356-348 dated August 31, 1956.

Blanket bond

Map No.	Map Letter	Bond No.	Forms		
			118	114	121
			10-17-5 aw		

CC - F L Madenworth
E L Bellaris
Imes MacKenzie
C E Byer

E. H. MUSSER

~~State Oil and Gas Supervisor~~

State Oil and Gas Supervisor

By [Signature] Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
OCT 17 1956
SANTA MARIA, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Ventura, Calif. October 16, 1956

DIVISION OF OIL AND GAS

Supplement to Drill

Santa Maria, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or altering casing~~ at Well No. "Realty" 48-2
(Cross out unnecessary words)

Sec. 2 ✓, T. 9N ✓, R. 33W ✓, S.B. / B. & M.
(Exploratory) Field, Santa Barbara ✓ County.

The present condition of the well is as follows:

- 1. Total depth. 4788'
- 2. Complete casing record. 13-3/8" casing cemented at 709'

This well found the top of the Miocene (Monterey formation) at 2314', the top of the Siltstone and Shell at 4000' and the top of the Knoxville at 4610'. Two open-hole tests were made in the Miocene in the intervals 2718/2924' and 3812/4000' and each resulted in recovery of a small amount of mud with spots of tarry oil.

No commercial oil shows were encountered in the Miocene. It is now proposed to redrill and core the Sisquoc tar sands between 2100' and 2325'.

3. Last produced. (Never produced)
(Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

~~(See attached program)~~

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
		B		10-17-56	10-17-56

GENERAL PETROLEUM CORPORATION

(Name of Operator)

By *[Signature]*
for A. McLean, Agent

TENTATIVE PLAN OF PROCEDURE FOR REDRILLING
WELL 48-2 IN SISQUOC TAR SANDS

~~PRESENT CONDITION OF HOLE:~~

~~13-3/8" casing cemented at 709'~~

~~TOTAL DEPTH: 4788'~~

~~PROCEDURE:~~

1. Plug 12-1/4" hole solidly with cement from 2325' with 550 sax mixed with 10% sand.
2. Clean out plug to 1600[±].
3. Redrill 12-1/4" hole 1600[±]/1800' building inclination at approximately 3°/100'.
4. Core 10-5/8" hole 1800/1820' (basal Foxen sand).
5. Open 10-5/8" hole to 12-1/4" and redrill 12-1/4" hole 1820/2100'. Continue to increase inclination at 3°/100' to approximately 12°.
6. Core 10-5/8" hole 2100/2325' (top Miocene) holding inclination at approximately 12°.

SPECIAL CORING INSTRUCTIONS:

- a. The length of individual core is to be limited to 20'.
- b. Should recovery of any core be less than 50%, the length of the succeeding core is to be limited to no more than 10'.
- c. If poor recovery is obtained in two successive cores, coring is to be temporarily suspended until orders from G.P. Drilling Department are obtained as to changes in the coring procedure.

NOTE: Sidetracked hole should be ^{at least} ~~approximately~~ 50' horizontally from original hole at 2325'.

7. Run electrical log 1600[±]/2325'. Run multi-shot survey.

Upon completion of this work, a further program will be issued.

I. M. MacKenzie, Jr.
October 15, 1956

COUNTY OF SANTA BARBARA
STATE OF CALIFORNIA
Special Report on Oil Operations Witnessed

CEMENTING SURFACE CASING

No. 2212

Santa Maria, Calif., September 14, 1956

Mr. J. J. Schillinger, Assistant Manager Right of Way Department
612 South Flower Street
Los Angeles 54, California

Agent for General Petroleum Corporation

DIVISION OF OIL FIELD
RECEIVED
SEP 18 1956
SANTA MARIA, CALIFORNIA

Dear Sir:

Operations at your well Realty No. 48-2 Sec. 2, T. 9N, R. 33W, S. B. B. & M.

West Cat Canyon Oil Field, in Santa Barbara County, were witnessed by

G. E. Dyer, representative of the County

on September 14, 1956. There was also present Mr. George Birt for Santa Maria Drilling Company and Mr. M. L. Mc Intyre engineer for General Petroleum Corporation.

Casing Record 9/14/56 Set and cemented 710 ft. of 13 3/8 in. O.D. 48 lb. new surface casing.

The operations were performed for the purpose of **setting and cementing surface casing.**

and the data and conclusions are as follows: Mr. Mc Intyre reported a 18 5/8 in. rotary hole drilled to a depth of 710 feet.

1. 7:30 a.m. to 9:28 a.m. ran casing.
2. Mud fluid circulated 20 minutes.
3. 10:36 a.m. to 11:03 a.m. 625 sacks of construction cement were pumped into casing by Halliburton Oil Well Cementing Company. Theoretical requirements 542 sacks. 1 top plug used.
4. 11:10 a.m. to 11:36 a.m. cement was displaced with 600 cu. ft. of mud fluid. Cement return was made before completion of displacement. Did not bump plug.

Oral approval of cementing procedure is herewith confirmed.

SANTA BARBARA COUNTY OIL WELL INSPECTOR

By C. E. Dyer

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P 356-948

Mr. Alex McLean
P O Box 770
Ventura Calif
Agent for General Petroleum Corp

Santa Maria Calif.
August 31, 1956

DEAR SIR:

Your proposal to drill Well No. "Realty" 48-2

Section 2, T. 9 N., R. 33W., S. 8. E. B. & M., Field, Santa Barbara County,

dated Aug. 30, 1956, received Aug. 31, 1956, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

"Legal description of mineral right lease, consisting of 160 acres, is as follows:
(Refer to attached map)

Do mineral and surface leases coincide? Yes X

Location of Well: 330 feet north along section line and 330 feet west at right angles to said line from the S/4 corner of section 2-9N-33W

Elevation of ground above sea level 540 1/2 feet datum.

All depth measurements taken from top of Kelly bushing which is 10 1/2 feet above ground."

PROPOSAL:

"PROPOSED CASING PROGRAM

Size of Cas. In. A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depth
<u>13-3/8"</u>	<u>48#</u>	<u>E-48</u>	<u>Surface</u>	<u>700'</u>	<u>700'</u>

(Additional casing contingent upon findings)

Intended zone or zones of completion: Possible Sisquoc oil sands & fractured Miocene shale zones

Estimated total depth 6500'

It is understood that if changes in this plan become necessary we are to notify you before running casing."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Mud fluid of sufficient weight and proper consistency to prevent blowouts shall be used in drilling the well and the column of mud fluid shall be maintained to the surface at all times, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be provided and tested before drilling below the shoe of the 13 3/8" casing and maintained ready for use at all times. Controls should be placed at least 50' from the hole.
3. The character of the fluid content of each porous formation shall be determined in so far as possible and, if of commercial value, shall be protected in a manner approved by this Division.
4. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
 - (a) Of any oil or gas showings encountered.
 - (b) Before running casing other than surface casing in the hole.
 - (c) To witness a test of each possible water shut-off.

E. H. MUSSER, State Oil and Gas Supervisor

By W. C. Bailey, Deputy

Blanket bond

GC - F. L. Madsworth
E. L. DeMaris
James Macdonald
C. E. Dyer

Forms	114	121
	115	8-31-52
Bond No.		5
Map Letter		
Map No.		

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well
This notice and surety bond must be filed before drilling begins

083-01272

14

AUG 31 1956

Ventura, Calif. August 30, 1956 SANTA MARIA, CALIFORNIA

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence the work of drilling well No. Realty 48-2, Sec. 2, T. 9N, R. 33W, S.B. S.B. B. & M., ~~Exploratory well~~ Field, Santa Barbara County.

Legal description of mineral right lease, consisting of 160 acres, is as follows: (refer to attached map)
(Attach map or plat to scale)

Do mineral and surface leases coincide? Yes No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of Well: 330 feet north along section line and 330 feet west at right angles to said line from the S/4 corner of section 2-9N-33W

Elevation of ground above sea level 540+ feet datum.

All depth measurements taken from top of kelly bushing which is 10+ feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
13-3/8"	48#	H-40	Surface	700'	700'
(Additional casing contingent upon findings)					

Intended zone or zones of completion: Possible Sisquoc oil sands & fractured Miocene shale zones
(Name) (Depth, top and bottom)

Estimated total depth 6500'

E-SW 1/4

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
2	9-1-56			8-31-56	8-31-56
	WFK				

It is understood that if changes in this plan become necessary we are to notify you before running casing.

Address P.O. Box 770, Ventura, Calif.

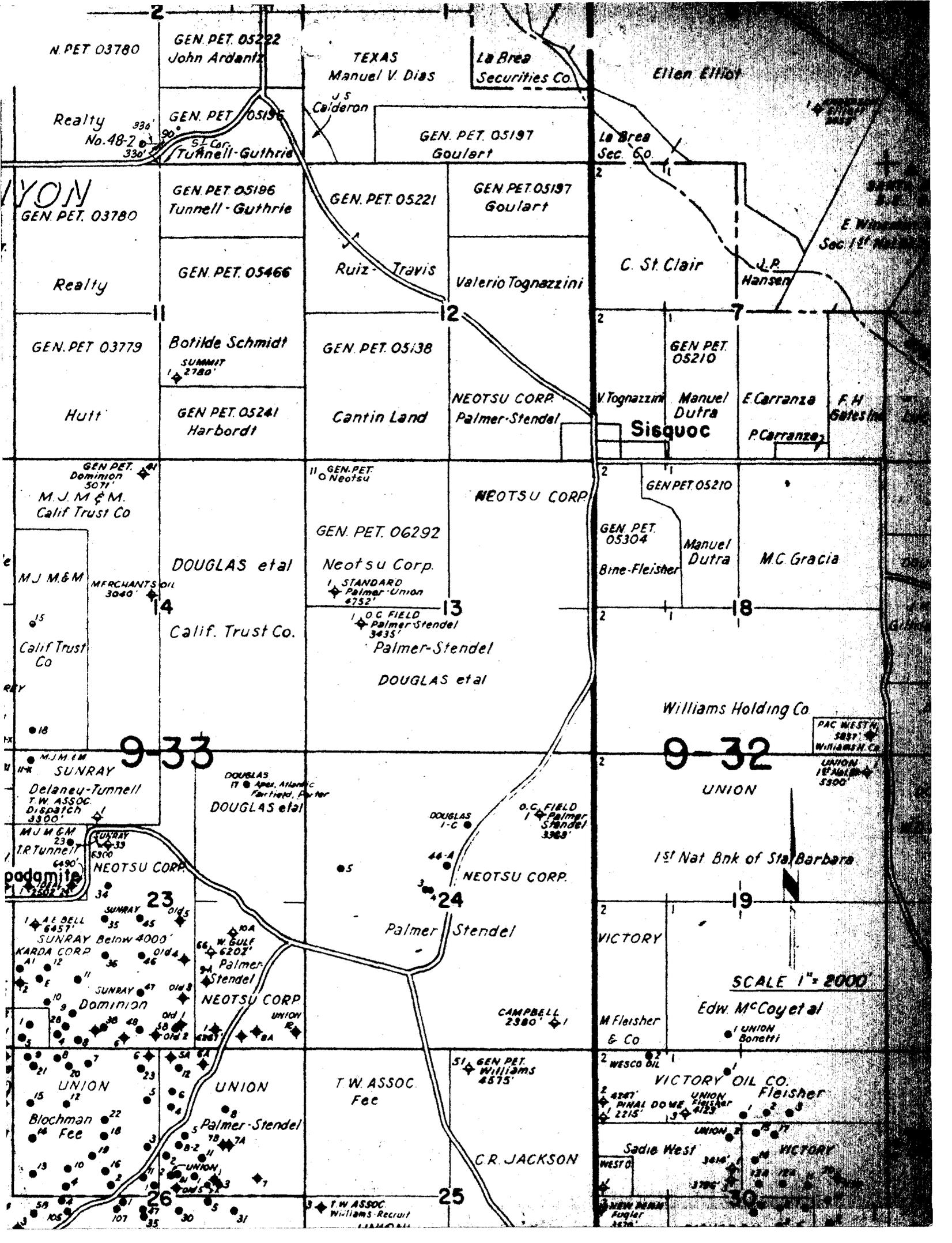
GENERAL PETROLEUM CORPORATION
(Name of Operator)

Telephone Number Miller 3-5451

By A. McLean
A. McLean, Agent

Type of Organization (Corporation, Partnership, Individual, etc.)

(Handwritten signature and initials)



N. PET 03780

GEN. PET. 05222
John Ardantz

TEXAS
Manuel V. Dias

La Brea
Securities Co.

Ellen Elliot

Realty
No. 48-2

GEN. PET. 05196
Tunnell-Guthrie

GEN. PET. 05197
Goulart

La Brea
Sec. 60.

RENTON
GEN. PET. 03780

GEN. PET. 05196
Tunnell-Guthrie

GEN. PET. 05221

GEN. PET. 05197
Goulart

Realty

GEN. PET. 05466

Ruiz-Travis

Valerio Tognazzini

C. St. Clair

J.P. Hansen

GEN. PET. 03779

Borilde Schmidt
SUMMIT
1 2780'

GEN. PET. 05138

GEN. PET. 05210

HUTT

GEN. PET. 05241
Harbordt

Cantin Land

NEOTSU CORP.
Palmer-Stendel

Sisquoc

Manuel Dutra
E. Carranza
P. Carranza

F.H. Sales Inc.

GEN. PET. Dominion
5071'
M.J.M. & M.
Calif Trust Co

GEN. PET. 0 Neotsu

NEOTSU CORP.

GEN. PET. 05210

M.J.M. & M.
Calif Trust Co

MERCHANTS OIL
3040'

DOUGLAS et al

GEN. PET. 06292

Neotsu Corp.
1. STANDARD
Palmer-Union
4752'

GEN. PET. 05304

Manuel Dutra

M.C. Gracia

M.J.M. & M.
SUNRAY
Delaney-Tunnell
T.W. ASSOC.
Dispatch
3300'

9-33

DOUGLAS et al
DOUGLAS et al

DOUGLAS et al
Palmer-Stendel
DOUGLAS et al

O.C. FIELD
Palmer-Stendel
3435'

GEN. PET. 05304

Bine-Fleisher

Williams Holding Co

9-32

UNION

PAC WEST
5837'
Williams H. Co.

UNION
18' NOLAN
5500'

M.J.M. & M.
SUNRAY
T. R. Tunnell
6490'

NEOTSU CORP.

DOUGLAS et al

DOUGLAS 1-C

O.C. FIELD
Palmer-Stendel
3963'

NEOTSU CORP.

GEN. PET. 05304

1st Nat. Bnk of Sta. Barbara

SUNRAY
1. A.E. BELL
6457'
SUNRAY Below 4000'
KARDA CORP.
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SUNRAY
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NEOTSU CORP.

Palmer-Stendel

CAMPBELL
2380'

VICTORY

SCALE 1" = 2000'

Edw. McCoy et al

UNION
Blochman
Fee

UNION

T.W. ASSOC.
Fee

GEN. PET. Williams
4575'

C.R. JACKSON

WESCO OIL

VICTORY OIL CO.
Fleisher

Sadie West

VICTORY

T.W. ASSOC.
Williams Recruit

25

WEST OIL

WEST OIL